

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 04-250728

(43)Date of publication of application : 07.09.1992

(51)Int.Cl.

H04J 14/02

(21)Application number : 03-044510

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(22)Date of filing : 08.01.1991

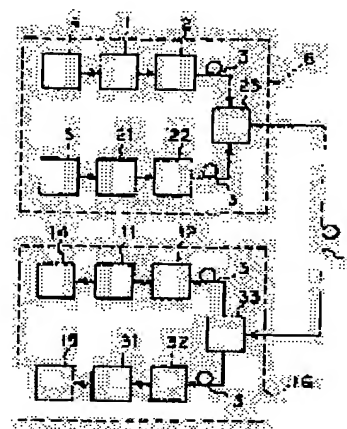
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## (54) OPTICAL TRANSMITTER

### (57)Abstract:

**PURPOSE:** To send an auxiliary signal independently of a speed of a master signal by allowing an optical multiplexer/demultiplexer to apply optical wavelength multiplex to the main signal and the auxiliary signal subjected to optical conversion and to send the resulting signal.

**CONSTITUTION:** A main signal of an optical pulse code modulation terminal station PCM 6 is converted into a coded mark inversion CMI signal. Then the electric main signal subjected to code conversion by an electrooptic conversion section 2 is converted into an optical signal and sent to an optical multiplexer demultiplexer 23 via an optical fiber 3. On the other hand, the auxiliary signal is converted into the CMI code the same as the main signal and the electric signal is converted into the optical signal and fed to the optical multiplexer demultiplexer 23 via the optical fiber 3. Thus, the main signal and the auxiliary signal are converted into the optical signal respectively in this way and subjected to optical wavelength multiplexing in the optical multiplexer demultiplexer 23 and the result is sent to an optical PCM terminal station 16. The main signal and the auxiliary signal are separated by above and they are sent respectively to interface sections 14, 15 via code conversion sections 11, 31.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision  
of rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]